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(54) **MEGAKARYOCYTE-PROLIFERATING AND DIFFERENTIATING FACTOR**

(57) Abstract:

PURPOSE: To obtain a megakaryocyte proliferating and differentiating factor capable of promoting proliferation and maturation and differentiation of a megakaryocyte, having a specific molecular weight, isoelectric point and an amino acid sequence, useful as a factor for promoting megakaryocyte-platelet-based hematopoiesis and useful for treating various diseases accompanied by decrease of platelet.

CONSTITUTION: A frozen and stored strain SBM 330 derived from a human epidermal cancer cell A431 acclimatized in a non-protein medium is thawed and then, put in a medium containing 10% fetal calf serum and cultured at 37°C in the presence of 5% CO₂ until the cell becomes confluent. Then, the cell is peeled with 0.25% trypsin solution and subjected to shake culture at 37°C for 3 day and the resultant cell is successively bound to a ceramic core and subjected to reflux culture at 37°C for 7 day and the cultured supernatant is recovered and concentrated with ultrafilter membrane and purified by subjecting the concentrate to get permeation to the objective megakaryocyte proliferation and differentiation factor capable of promoting proliferation and maturation and differentiation of the megakaryocyte and being

55-57kD in molecular weight due to get permeation and SDS-PAGE, having no intramolecular disulfide bond, exhibiting 6.5±0.5 isoelectric point and containing an amino acid sequence of the formula (Xxx is amino acid residue), etc.

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Xxx Glu Thr Ile Asn Xxx His Phe Lys

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